

The
Management
University
of Africa



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UNDERGRADUATE UNIVERSITY EXAMINATIONS

SCHOOL OF MANAGEMENT AND LEADERSHIP

DEGREE OF BACHELOR OF ARTS IN DEVELOPMENT STUDIES

BDS 108 : COMPUTER APPLICATIONS 2

DATE: 4TH AUGUST 2016

DURATION: 2 HOURS

MAXIMUM MARKS: 70

INSTRUCTIONS:

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **SIX (6)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **THREE** questions.
6. Question **ONE** carries **25 MARKS** and the rest carry **15 MARKS** each.
7. Write all your answers in the Examination answer booklet provided.

QUESTION ONE

Read the Case Study below carefully and answer the questions that follow:

CENTRAL DATA CENTER LIMITED. (CDC LTD)

Central Data Center Limited is an organization which offer computing services to its customers. Their services are mainly cloud based and involve offering platform as a service (PaaS), Data as a Service (DaaS) and Software as a Service (SaaS). In order to achieve these services, they have data center infrastructure allows data center operators and their customers to run applications with maximum performance and efficiency. It includes the hardware and software on which data centers are built, including storage, servers, networking gear, power supplies, cooling devices, backup power, fire suppression, physical security, and other devices.

CDC has the expertise, experience and resolve to handle the changing infrastructure needs of the world's most demanding businesses. They have invested utility software that help them in File Management, Disk Management, Formatting and also have Security software for protection of data and other software resources.

Their solutions including transformation and systems management hosting and co-location services and building secure and energy efficient infrastructure environment. They help companies re-engineer their business processes and align capacity with business outcomes and help customers realize full potential of their investments. This means that companies can focus on their core business and let CDC focus on investing in computers, because computers help organizations in many ways.

CDC, as the name suggests, have a data center, a centralized repository, either physical or virtual, for the storage, management, and dissemination of data and information organized around a particular body of knowledge or pertaining to a particular business. In order to keep in touch with their customers, they have also invested in different types of communication software that allows them to communicate both in real time and also in time shift. This has enabled them to serve their customers

efficiently. They have currently a capacity to host 1 Exabyte (EB) of data and have an internet speed of one terabyte per second.

Required:

- a) Describe the functionalities of the following System Software Utilities **(8 Marks)**
- i. File Management
 - ii. Disk Management
 - iii. Formatting
 - iv. Security Software
- b) Explain any THREE reasons why computers are “better” than human beings. Use examples to justify your answers **(3 Marks)**
- c) Discuss what communication software is and give examples of communication software that you can find in the market today, to solve the company’s needs **(6 Marks)**
- d) Discuss any FOUR types of data storage that the organization can use and in each case point out the advantage why it would be suitable. **(8 Marks)**

QUESTION TWO

- a) Explain what a spreadsheet is and give examples to support your answer. **(2 Marks)**
- b) Describe how the following terms apply to spreadsheets software **(2 Marks each, Total 8 Marks)**
- i. Rows and Columns
 - ii. Cell
 - iii. Formula

- iv. Chart
- c) Explain what a Solid State Drive is and list any THREE disadvantages of such a drive (5 Marks)

QUESTION THREE

- a) Explain the following terms as they apply to computer security (8 Marks)
 - i. Zombie
 - ii. Phishing
 - iii. Spam
 - iv. Browser hijacking
- b) Describe the function of the Computer Manager tool and explain the functionalities of the following computer management tools (7 Marks)

QUESTION FOUR

- a) Describe the functionalities of the following parts of a computer
 - i. The motherboard (4 Marks)
 - ii. The processor (4 Marks)
- b) Describe the key features of **Microsoft Office Online** any FOUR alternatives to **Microsoft Office Online**, that are available in the market, and which run online on the Internet. (7 Marks)

QUESTION FIVE

- a) Describe the following terms as they relate to computer software
 - i. Systems Software (4 Marks)

ii. Applications Software

(4 Marks)

- b) Explain the term **Octal Notation** and convert the following numbers from Octal to Decimal notation. Show your working. (7 Marks)

- i. 27 (8)
- ii. 30 (8)
- iii. 4307 (8)

QUESTION SIX

- a) Explain how you the security level in Microsoft Excel, Outlook, PowerPoint, and Word, and expound on the three levels of Security that Microsoft gives.

(7 Marks)

- b) Write short notes on the following computing environments.

- i. Mobile Computing (4 marks)
- ii. Distributed Systems (4 marks)

